

August 13.2013



# **Citizens' Telecommunications and Technology Advisory Board**

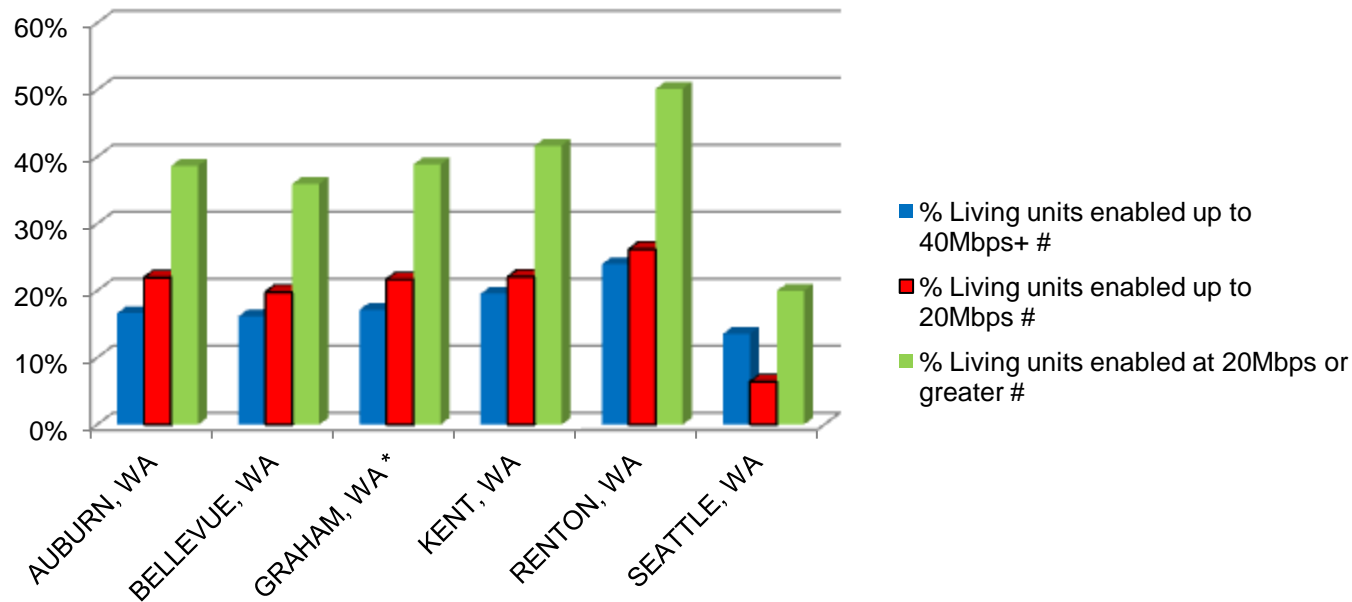
# What is CenturyLink trying to do?

- Modify existing SDOT director's rule so that the company can deploy next generation broadband to underserved communities
- Initiate broadband pilot in Beacon Hill
- Modify existing SDOT director's rule so that the company can repair, maintain, and upgrade equipment it acquired from Qwest.

# CenturyLink Broadband in Seattle

## Myths and Facts

# **FACT** - CenturyLink's deployment in Seattle lags behind other Puget Sound cities

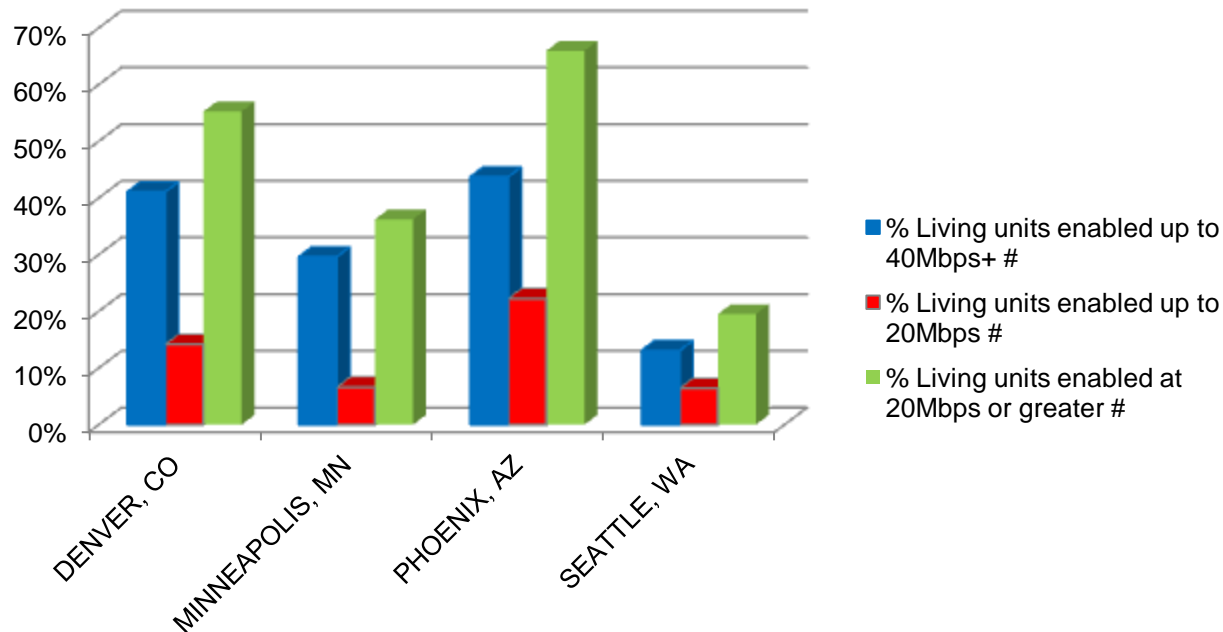


City	% Living Units Enabled 40Mbps+	% Living Units Enabled up to 20Mbps	% Living Units Enabled at 20Mbps or greater
AUBURN, WA	17%	22%	39%
BELLEVUE, WA	16%	20%	36%
GRAHAM, WA *	17%	22%	39%
KENT, WA	20%	22%	42%
RENTON, WA	24%	26%	50%
SEATTLE, WA	14%	6%	20%

\* Numbers calculated at wire center since Graham is not an incorporated city.

# CenturyLink has implemented technology in Seattle that allows the company to offer speeds up to 100Mbps in many areas previously enabled at a top speed of 40Mbps. The same technology, virtually allows the doubling of speeds in any Seattle neighborhood where the company has been allowed to upgrade existing facilities to next generation broadband equipment.

# **FACT** - CenturyLink's deployment in Seattle lags behind other major cities.

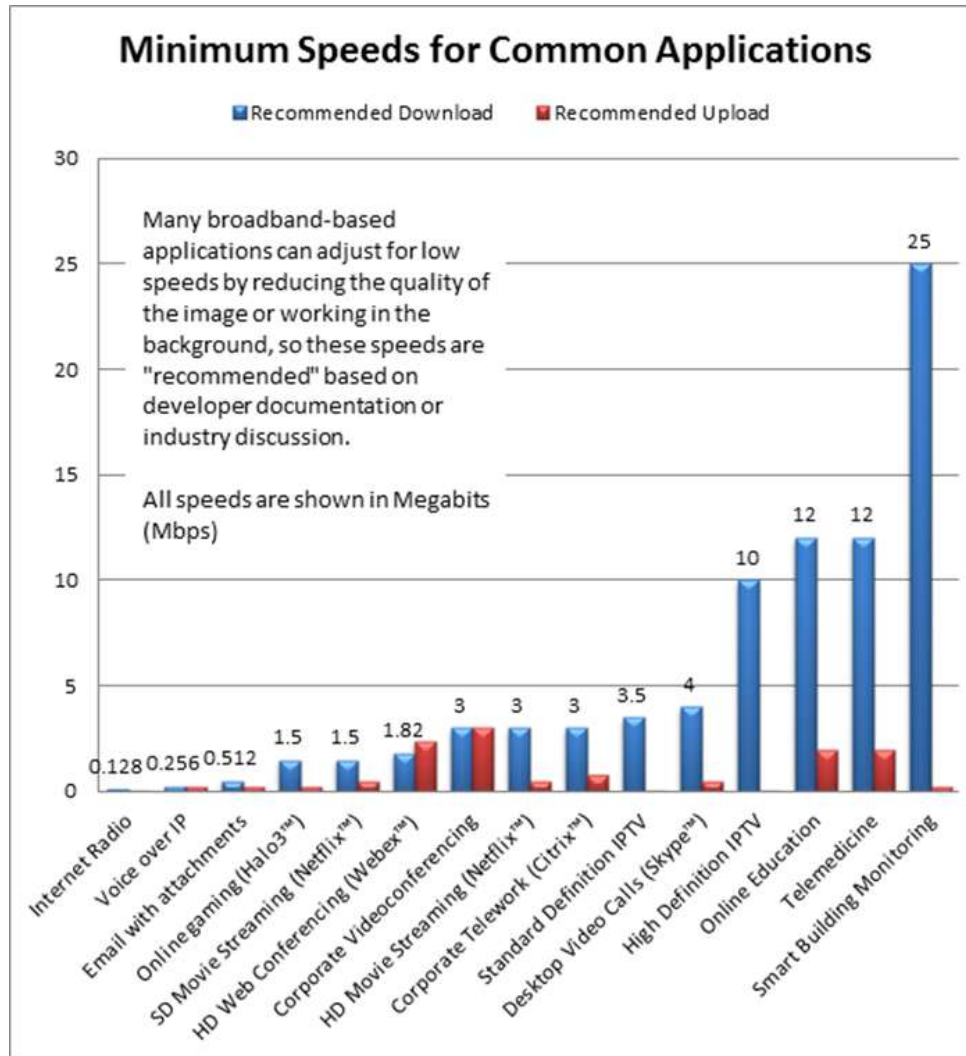


City	% Living Units Enabled 40Mbps+ #	% Living Units Enabled up to 20Mbps	% Living Enabled at 20Mbps or greater
DENVER, CO	41%	14%	55%
MINNEAPOLIS, MN	30%	7%	36%
PHOENIX, AZ	44%	22%	66%
SEATTLE, WA	13%	6%	20%

# CenturyLink has implemented technology in Seattle that allows the company to offer speeds up to 100Mbps in many areas previously enabled at a top speed of 40Mbps. The same technology, virtually allows the doubling of speeds in any Seattle neighborhood where the company has been allowed to upgrade existing facilities to next generation broadband equipment.

# MYTH – You need 1gig or higher speed in order for broadband to be useful.

State of Washington Department of Commerce Broadband Office report on minimum speeds needed to support various applications



# **MYTH** - CenturyLink wants changes to the Director's rule that eliminate public involvement and clutter city right-of-ways

- The company is asking to replace the existing veto with alternative community outreach processes.
- CenturyLink is not proposing changes to the existing size, placement or maximum number devices per block requirements currently contained in the Director's rule.



**MYTH** - CenturyLink can underground broadband equipment but chooses not to.





# Controlled Environment Vault (CEV) Installation



# Controlled Environment Vault (CEV) Installation cont...



# Controlled Environment Vault (CEV) Installation cont...





# Controlled Environment Vault (CEV) Installation cont...



# Controlled Environment Vault (CEV) Installation cont...

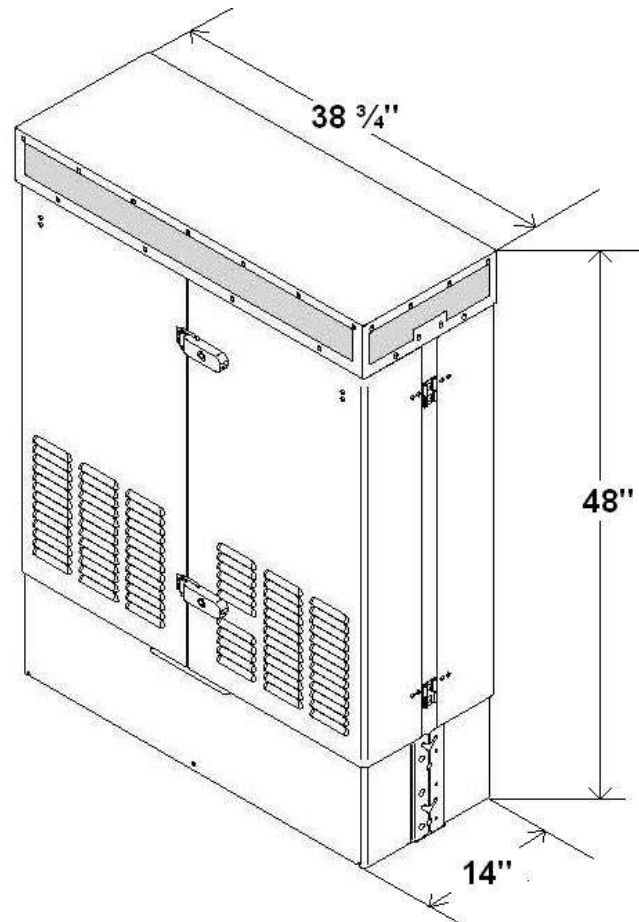




# Controlled Environment Vault (CEV) Installation cont...



# Air cooled broadband cabinet





## **MYTH** - CenturyLink can paint or wrap it's broadband equipment but chooses not to

CenturyLink is prohibited by it's equipment manufactures from modifying paint color or wrapping it's broadband cabinets.

## **MYTH** - CenturyLink could place equipment on private property but chooses the right-of-way instead

CenturyLink's preference is to place equipment on private property because it provides the company more certainty. Therefore CenturyLink always attempts to secure private easements before turning to placement in the ROW.

In fact, CenturyLink has to document that it attempted to secure a private easement from at least two locations as part of its permit application process.

**MYTH –** Fiber to the premise would eliminate the need to place devices in the public right-of-way or on poles

Gigabit Passive Optical Network (GPON) requires splitters and other devices.

## **MYTH** - In all instances, CenturyLink has to install multiple cabinets in order to deploy broadband

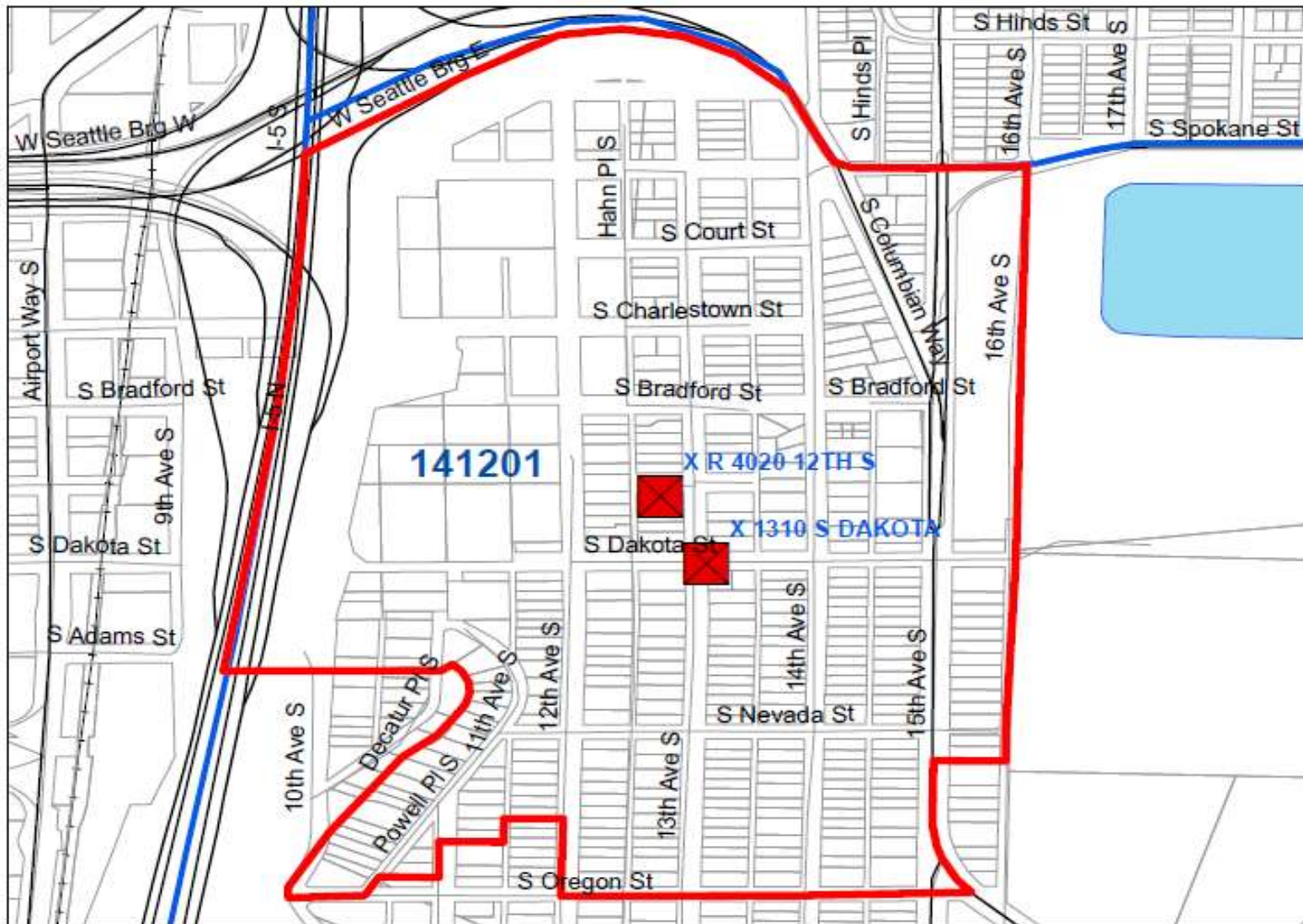
This used to be true, but because of rule changes enacted by Seattle City Light this is no longer true. Previously, every broadband device installed by the company required the placement of a meter and meter base.

With the rule revisions, CenturyLink can now power it's most commonly deployed broadband cabinet on an unmetered basis, eliminating the need for the meter base.

Note: All fiber to the node broadband equipment act as supplements to existing cross-connect cabinets

# Beacon Hill Pilot

# Pilot Area #1



1 inch = 0.11 miles



# Pilot Area #1, site 1 – current view and proposed

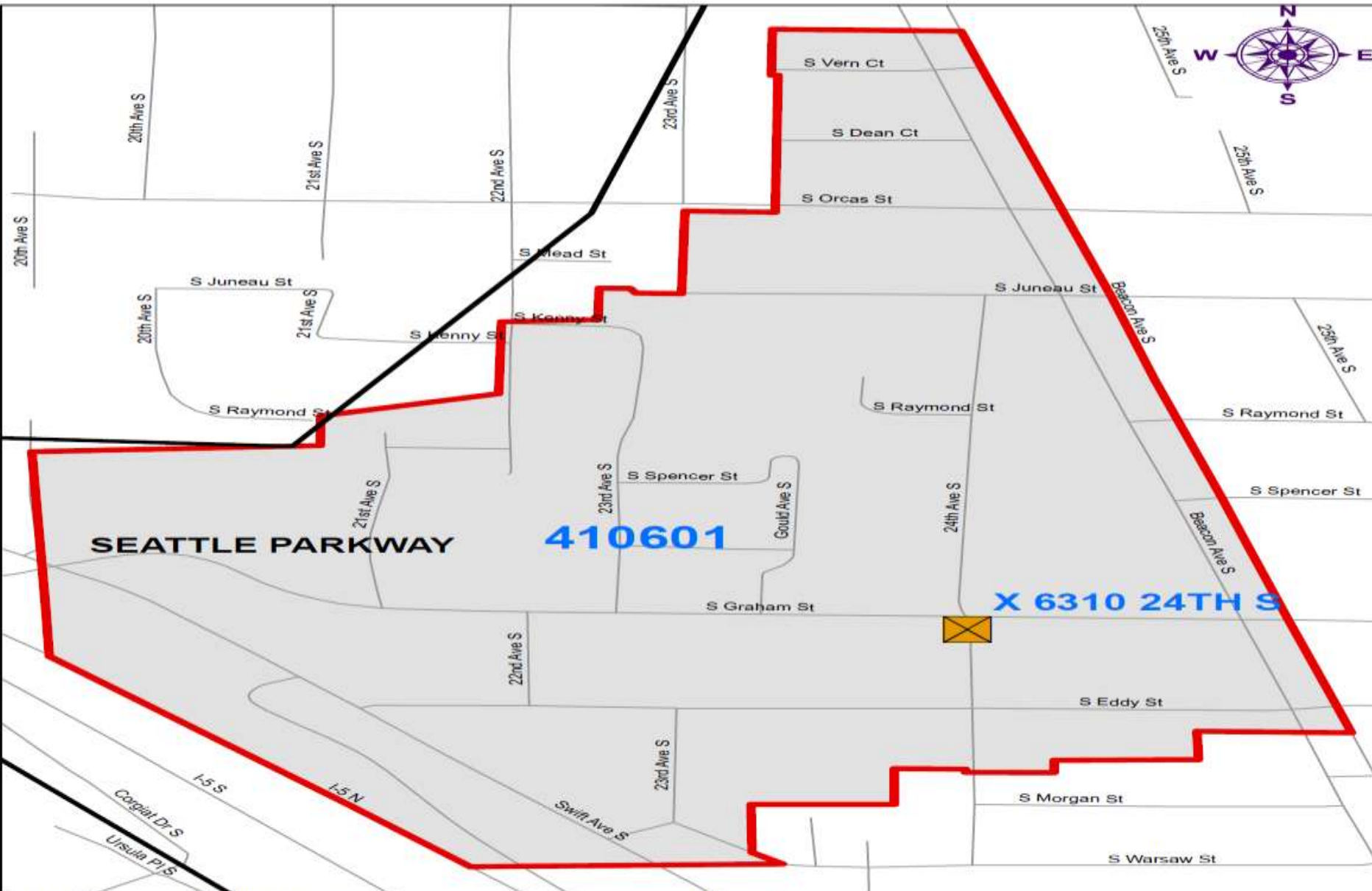




# Pilot Area #1, site 2 – current view and proposed



## Pilot Area #2





# Pilot Area #2 – current view and proposed



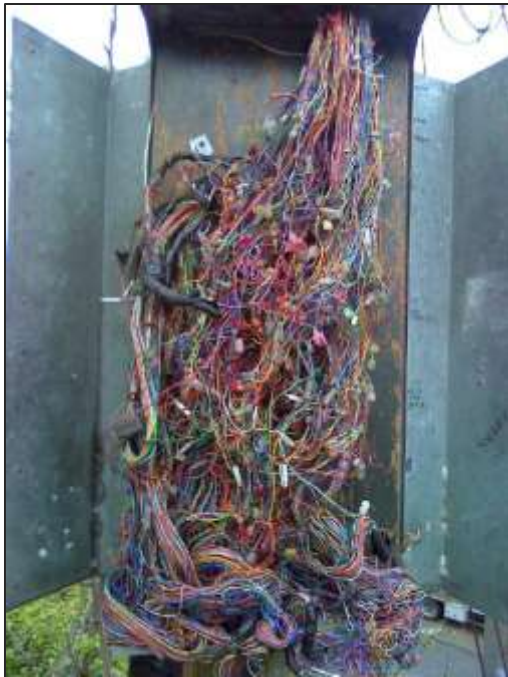


# Actual broadband sites





# Repair of existing cabinets and equipment



**Questions?**